

CLAIMS

1. A portable radio comprising:
a casing (2);
5 a cover (3) attached to said casing (2) so as to be freely opened and closed;
a dipole antenna (5) attached to said cover (3);
power supply means (4a, 4b, 6a, 6b) for supplying power to said dipole antenna (5);
10 open-close detection means (7) for detecting the opening/closing of said cover (3); and
power supply control means (8) for controlling said power supply means (4a, 4b, 6a, 6b) based upon results of detection of said open-close detection means (7).

2. The portable radio according to claim 1, wherein said power supply means (4a, 4b, 6a, 6b) comprises parallel two-line type power supply lines (4a, 4b), said parallel two-line type power supply lines being excited in reversed phases in a state where said cover (3) is open, said parallel two-line type power supply lines being excited in the same phase in a state where said cover (3) is closed.

3. The portable radio according to claim 1, wherein: said power supply means (4a, 4b, 6a, 6b) comprises a coaxial line (9), said coaxial line (9) being provided with an external conductor (9a) and an inner conductor (9b), with said external conductor (9a) and said casing (2) being short-circuited, and excites said inner conductor (9b) in a state where said cover (3) is open, and excites said external conductor (9a) in a state where said cover (3) is closed.

4. The portable radio according to claim 3, wherein a power supply point (10) of said external conductor (9a) and a short-circuit point (11) of said external conductor (9a) to said casing (2) has a gap of a quarter

wavelength.

5 5. The portable radio according to claim 1, wherein said dipole antenna (5) is extended in a direction orthogonal to a length direction of said casing (2).

6. The portable radio according to claim 1, wherein said dipole antenna (5) has a top end that is bent.

10 7. The portable radio according to claim 1, wherein said dipole antenna (5) has a top end that is bent into a meandering shape.

15 8. A portable radio comprising:
a casing (2);
a cover (3) attached to said casing (2) so as to be freely opened and closed;
a dipole antenna (5) attached to said cover (3);
power supply means (6) for supplying power to said dipole antenna (5); and
20 a resonator (9) installed in said casing (2),
wherein said resonator (9) is placed in a position close to said dipole antenna (5) when said cover (3) is closed.

25 9. The portable radio according to claim 8, wherein said resonator (9) comprises a quarter wavelength resonator with one end being short-circuited, the other end being opened.

30 10. The portable radio according to claim 8, wherein said resonator (9) comprises a half wavelength resonator with both of the ends being opened.

11. The portable radio according to claim 8, wherein said dipole antenna (5) is extended in a direction orthogonal to a length direction of

said casing (2).

12. The portable radio according to claim 8, wherein said dipole antenna (5) has a top end that is bent.

13. The portable radio according to claim 8, wherein said dipole antenna (5) has a top end that is bent into a meandering shape.

14. A portable radio comprising:
a casing (2);
a cover (3) attached to said casing (2) so as to be freely opened and closed;
a dipole antenna (5) attached to said cover (3);
power supply means (6) for supplying power to said dipole antenna (5);
open-close detection means (7) for detecting the opening/closing of said cover (3);
first and second matching circuits (12, 13);
a first switch (14) which, based upon the result of detection by said open-close detection means (7), makes a switchover between said first and second matching circuits (12, 13) and said power supply means (6); and
a second switch (15) which, based upon the result of detection by said open-close detection means (7), makes a switchover between said first and second matching circuits (12, 13) and said dipole antenna (5).

15. The portable radio according to claim 14, wherein said dipole antenna (5) is extended in a direction orthogonal to a length direction of said casing (2).

16. The portable radio according to claim 14, wherein said dipole antenna (5) has a top end that is bent.

17. The portable radio according to claim 14, wherein said dipole antenna (5) has a top end that is bent into a meandering shape.